48/50P030-100
48/50Z030-105
Fan Status Switch Accessory

Installation and Operating Instructions

Part Number CRFANSTS001A00

PACKAGE USAGE AND CONTENTS

PART NUMBER	ITEM	QUANTITY
HK06WC030	Pressure Switch	1
50DW512107	Sensor Bracket	1
50NP500026	Control Tube	1
EV83XZ150	Pickup Tube	1
—	Screw – $^1/_4$ AB-14x$^5/_8$ in.	2
—	Screw – 8-18x$^1/_2$ in.	2
—	Screw – 10 AB-$^5/_8$ in.	2
—	Wire Tie	7

SAFETY CONSIDERATIONS

Installation and servicing of air-conditioning equipment can be hazardous due to system pressure and electrical components. Only trained and qualified service personnel should install, repair, or service air-conditioning equipment.

Untrained personnel can perform the basic maintenance functions of replacing filters. All other operations should be performed by trained service personnel. When working on air-conditioning equipment, observe precautions in the literature, tags and labels attached to the unit, and other safety precautions that may apply.

INSTALLATION

NOTE: The fan status switch can monitor the fan status by sensing the static pressure difference between the fan inlet and outlet (see Fig. 1). Follow the procedures below and perform the steps necessary to install the fan status switch.

⚠ WARNING

Prior to installation of this accessory, make sure all power is disconnected to the unit and locked out. Failure to disconnect power supply prior to servicing may result in serious injury.

⚠ WARNING

Before beginning any modifications to units with gas heat, close the main gas supply shutoff valve. Fire could result. TAG GAS VALVE WITH APPROPRIATE WARNING LABELS.

⚠ CAUTION

When removing panels from the unit, be careful not to damage the roof or other surfaces with the panels.

1. Shut power off.
2. Open indoor fan access door/panel to gain access to the indoor fan section.
3. Mount the sensor bracket on the fan section upright using the two$^1/_4$ BA-14x$^5/_8$ in. screws.
   - For 48/50P030-070 and 48/50Z030-070 units, see Fig. 2.
   - For 48/50P075-100 and 48/50Z075-105 units, see Fig. 3.
4. Mount the pressure switch on the bracket using the two 8-18x$^1/_2$ in. screws. See Fig. 4. Fig. 1 shows the pressure switch inlet ports details.
5. Mount the pickup tube on the partition at the fan outlet using the two 10AB-$^5/_8$ in. screws.

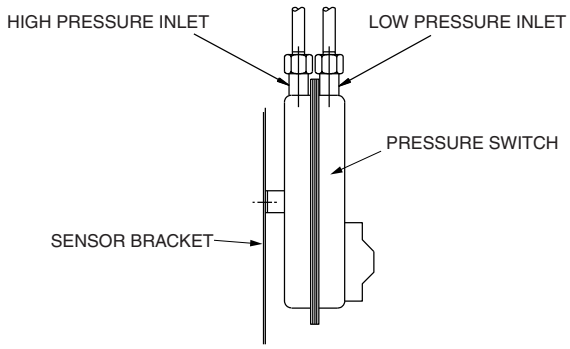

Fig. 1 — Fan Status Switch

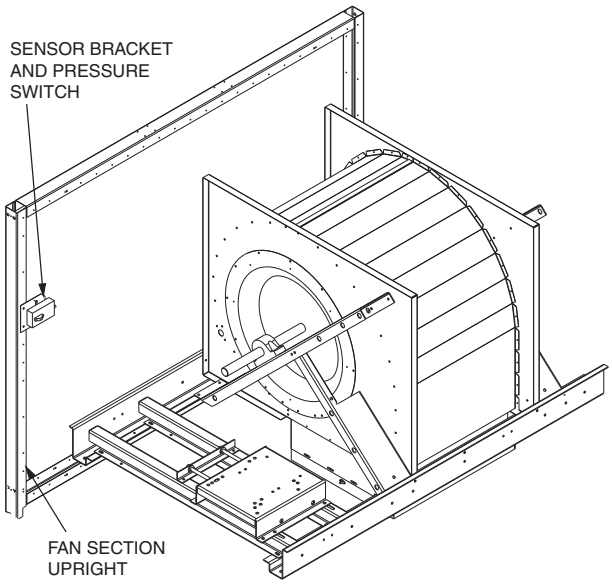

Fig. 2 — Fan Status Switch Location 48/50P030-070 and 48/50Z030-070 Units

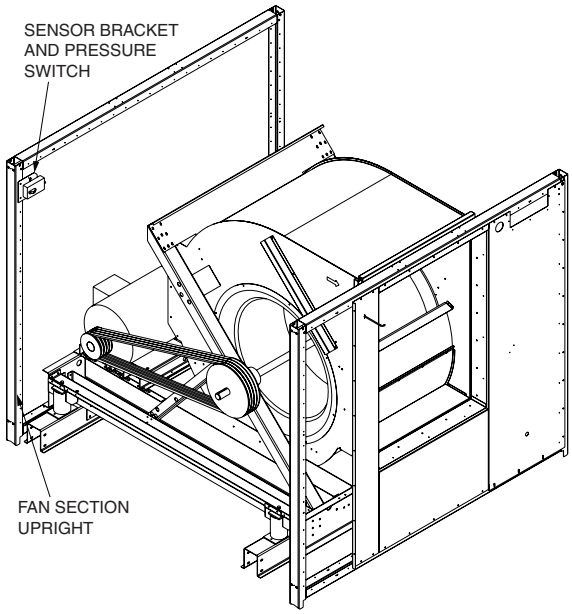

Fig. 3 — Fan Status Switch Location 48/50P075-100 and 48/50Z075-105 Units

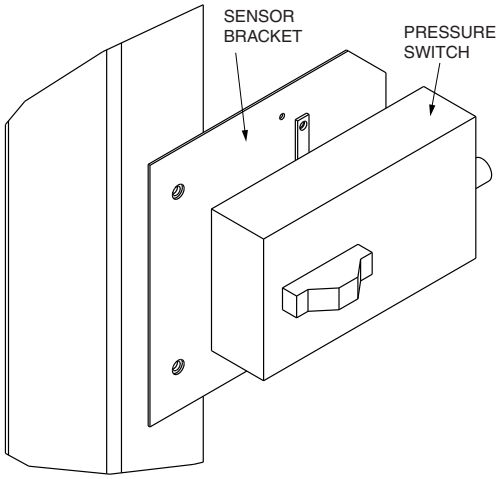

Fig. 4 — Mount Fan Status Switch to Bracket

- For 48/50P030-070 and 48/50Z030-070 vertical supply units, see Fig. 5.
- For 48/50P030-070 and 48/50Z030-070 horizontal supply units, see Fig. 6.
- For 48/50P075-100 and 48/50Z075-105 units, see Fig. 7.

6. Attach the plastic control tube to the high pressure inlet of the pressure switch.
7. Route the control tube from the pressure switch to the pickup tube. Use wire ties to secure the control tube. Cut excessive tube if necessary.
   - For 48/50P030-070 and 48/50Z030-070 vertical supply units, see Fig. 8.
   - For 48/50P030-070 and 48/50Z030-070 horizontal supply units, see Fig. 9.
   - For 48/50P075-100 and 48/50Z075-105 units, see Fig. 10.
8. Attach the control tube to the pickup tube.
9. The fan status switch harness is factory installed. Locate the harness (two red wires) near the fan status switch location.

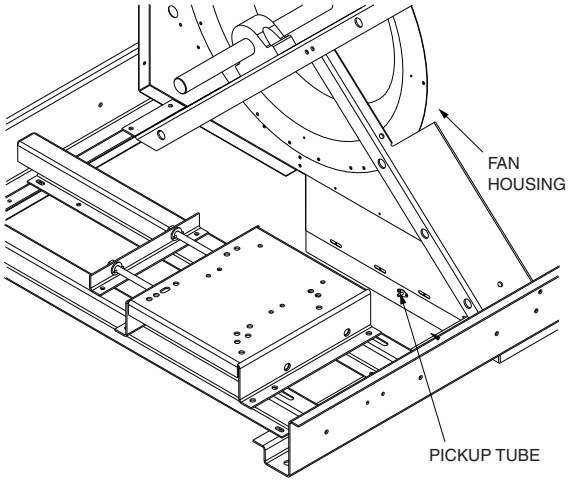

Fig. 5 — Mount Pickup Tube — 48/50P030-070 and 48/50Z030-070 Vertical Supply Units

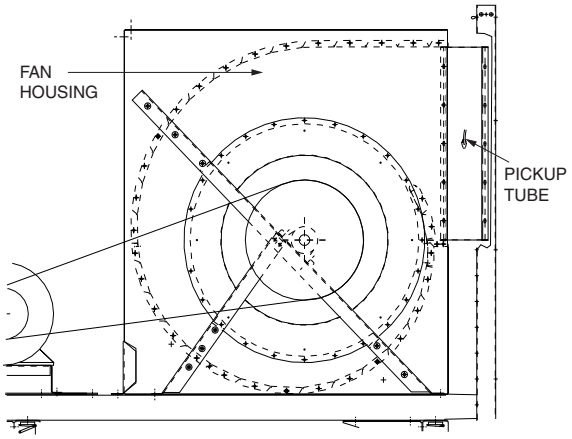

Fig. 6 — Mount Pickup Tube — 48/50P030-070 and 48/50Z030-070 Horizontal Supply Units

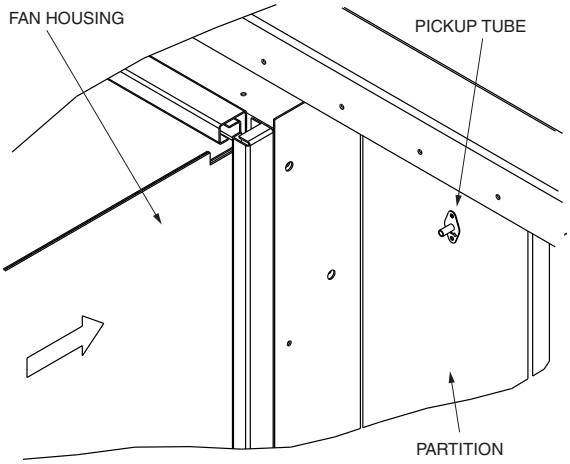

Fig. 7 — Mount Pickup Tube — 48/50P075-100 and 48/50Z075-105 Units

10. Attach one wire to the "COM" terminal of the switch. Attach the other wire to the "NO" terminal of the switch.
11. Install the panels and close all doors.
12. Restore power to the unit.

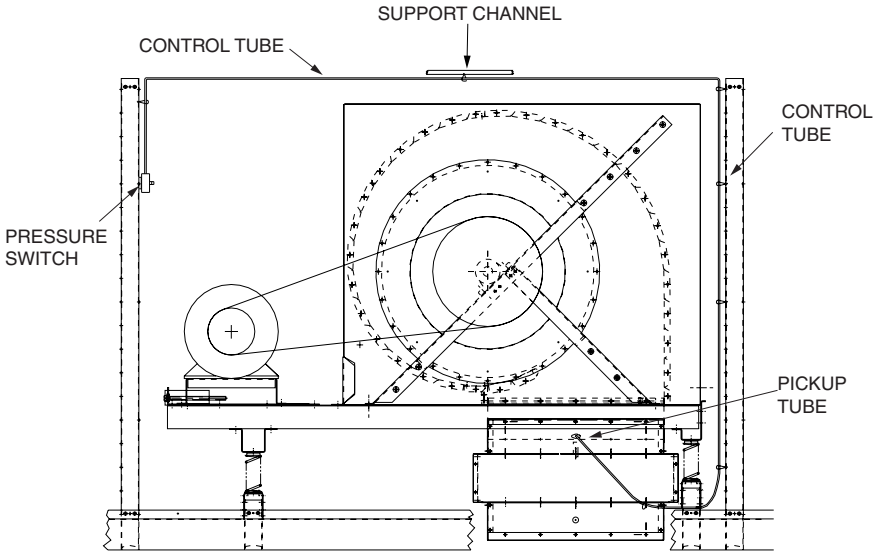

Fig. 8 — Route Control Tube — 48/50P030-070 and 48/50Z030-070 Vertical Supply Units

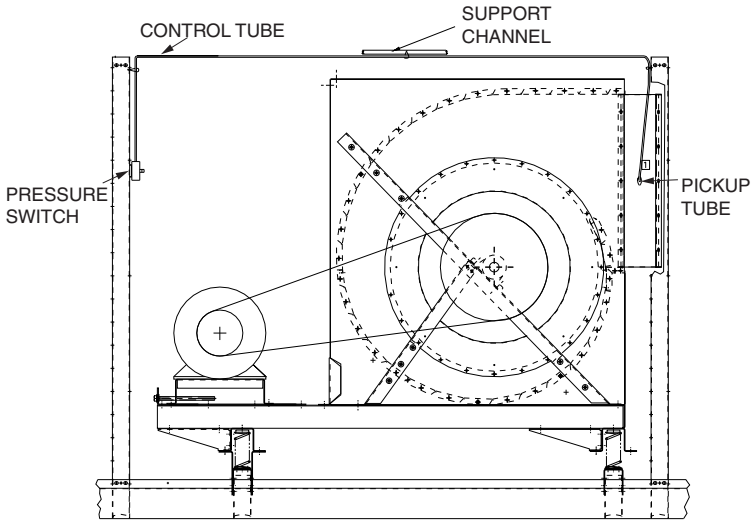

Fig. 9 — Route Control Tube — 48/50P030-070 and 48/50Z030-070 Horizontal Supply Units

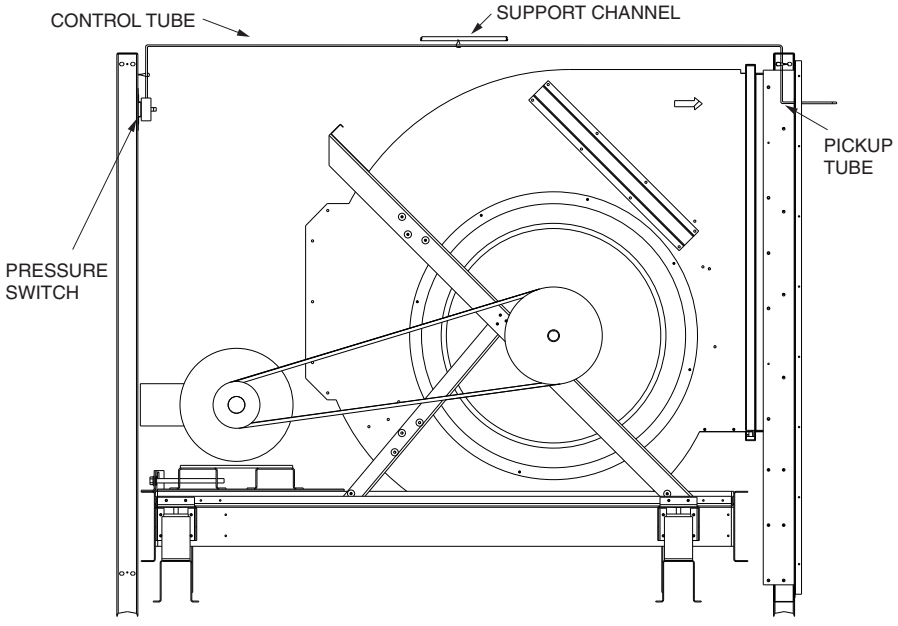

Fig. 10 — Route Control Tube — 48/50P075-100 and 48/50Z075-105 Units

CONFIGURATION

The *Comfort*Link™ controller must be configured for the switch to take effect. Refer to the Controls and Troubleshooting Guide for details.

OPERATION

The fan status switch will determine the fan on/off status by sensing the pressure difference between the indoor fan inlet and outlet. If the pressure difference is greater than the set point, the switch will close and send the signal to the *Comfort*Link controller. If the pressure difference is less than the set point, the switch will open. The set point can be changed by adjusting the set screw on the pressure switch.

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